L Number	Hits	Search Text	DB	Time stamp
1	8	("5220260" "5414337" "5559412"	USPAT;	2003/09/30
•		"5889670").pn.	US-PGPUB:	14:04
			DERWENT	
2	4	("5220260" "5414337" "5559412"	USPAT	2003/09/30
	_	"5889670").pn.		14:03
3	1	6,154,201.pn.	USPAT	2003/09/30
				13:27
4	101	("3919691"   "4050265"   "4131033"	USPAT	2003/09/30
		"4477043"   "4560983"   "4706294"		13:44
		"4712101"   "4782327"   "4795296"		
		"4800721"   "4823634"   "4868549"		
		"4935728"   "4943866"   "4964004"		
		"4979050"   "4983901"   "5007300"		
		"5044956"   "5095303"   "5107080"		
		"5138154"   "5139261"   "5146566"		
		"5185561"   "5186629"   "5189355"		
		"5193963"   "5204600"   "5220260"		
		"5223776"   "5235868"   "5254919"		
		"5280276"   "5296846"   "5296871"	,	
		"5313230"   "5317336"   "5355148"		
		"5374942"   "5381080"   "5389865"		
		"5396266"   "5398044"   "5405152"		
		"5414337"   "5457479"   "5473344"		
İ		"5477237"   "5491477"   "5513100"		
		"5530455"   "5541379"   "5542672"		
		"5543821"   "5576727"   "5589828"		
		"5589854"   "5591082"   "5623582"		
		"5625576"   "5627531"   "5642469"		
		"5643087"   "5656901"   "5666138"		
		"5666473"   "5691747"   "5691898"		
		"5709219"   "5712725"   "5714978"		
		"5721566"   "5724068"   "5724106"		
		"5734373"   "5736978"   "5742278"		
		"5745057"   "5749577"   "5754023"		
		"5755577"   "5760764"   "5767839"		
		"5781172"   "5787152"   "5790108"		
		"5805140"   "5808568"   "5808603"		
		"5823876"   "5825308"   "5831408"		
		"5841428"   "5889506"   "5889670"		
		"5889672"   "5912661"   "5944151"		
		"5959613"   "5990869").PN.		

5	39	(("3919691"   "4050265"   "4131033"	USPAT	2003/09/30
		"4477043"   "4560983"   "4706294"		13:44
		"4712101"   "4782327"   "4795296"		
		"4800721"   "4823634"   "4868549"		
		"4935728"   "4943866"   "4964004"		
		"4979050"   "4983901"   "5007300"		
		"5044956"   "5095303"   "5107080"		
		"5138154"   "5139261"   "5146566"		
		"5185561"   "5186629"   "5189355"		
		"5193963"   "5204600"   "5220260"		
		"5223776"   "5235868"   "5254919"		•
		"5280276"   "5296846"   "5296871"		
		"5313230"   "5317336"   "5355148"		
		"5374942"   "5381080"   "5389865"		
		"5396266"   "5398044"   "5405152"		
		"5414337"   "5457479"   "5473344"		
		"5477237"   "5491477"   "5513100"		
		"5530455"   "5541379"   "5542672"		
		"5543821"   "5576727"   "5589828"		
		"5589854"   "5591082"   "5623582"		
		"5625576"   "5627531"   "5642469"		
		"5643087"   "5656901"   "5666138"		
		"5666473"   "5691747"   "5691898"		
		"5709219"   "5712725"   "5714978"		
		"5721566"   "5724068"   "5724106"		
		"5734373"   "5736978"   "5742278"		
		"5745057"   "5749577"   "5754023"		
		"5755577"   "5760764"   "5767839"		
		"5781172"   "5787152"   "5790108"		
		"5805140"   "5808568"   "5808603"		
		"5823876"   "5825308"   "5831408"	,	
		"5841428"   "5889506"   "5889670"		
		"5889672"   "5912661"   "5944151"		
		"5959613"   "5990869").PN.) and actuator		

6	28	((("3919691"   "4050265"   "4131033"	USPAT	2003/09/30
		"4477043"   "4560983"   "4706294"		13:44
		"4712101"   "4782327"   "4795296"		
		"4800721"   "4823634"   "4868549"		
		"4935728"   "4943866"   "4964004"		
		"4979050"   "4983901"   "5007300"		
		"5044956"   "5095303"   "5107080"		
		"5138154"   "5139261"   "5146566"		
		"5185561"   "5186629"   "5189355"		
		"5193963"   "5204600"   "5220260"		
		"5223776"   "5235868"   "5254919"		
		"5280276"   "5296846"   "5296871"		
		"5313230"   "5317336"   "5355148"		
		"5374942"   "5381080"   "5389865"		
		"5396266"   "5398044"   "5405152"		
		"5414337"   "5457479"   "5473344"		
		"5477237"   "5491477"   "5513100"		
		"5530455"   "5541379"   "5542672"		
		"5543821"   "5576727"   "5589828"		
		"5589854"   "5591082"   "5623582"		
		"5625576"   "5627531"   "5642469"		
		"5643087"   "5656901"   "5666138"		
		"5666473"   "5691747"   "5691898"		
		"5709219"   "5712725"   "5714978"		
		"5721566"   "5724068"   "5724106"		
		"5734373"   "5736978"   "5742278"		
		"5745057"   "5749577"   "5754023"		
		"5755577"   "5760764"   "5767839"		
		"5781172"   "5787152"   "5790108"		
		"5805140"   "5808568"   "5808603"		
		"5823876"   "5825308"   "5831408"		
		"5841428"   "5889506"   "5889670"		
		"5889672"   "5912661"   "5944151"		
		"5959613"   "5990869").PN.) and actuator)		
		and controller		

7	28	(((("3919691"   "4050265"   "4131033"	USPAT	2003/09/30
		"4477043"   "4560983"   "4706294"		13:44
	ļ	"4712101"   "4782327"   "4795296"		
		"4800721"   "4823634"   "4868549"		
		"4935728"   "4943866"   "4964004"		
		"4979050"   "4983901"   "5007300"		
		"5044956"   "5095303"   "5107080"		
		"5138154"   "5139261"   "5146566"		
		"5185561"   "5186629"   "5189355"		
		"5193963"   "5204600"   "5220260"		
		"5223776"   "5235868"   "5254919"		
		"5280276"   "5296846"   "5296871"		
		"5313230"   "5317336"   "5355148"		
		"5374942"   "5381080"   "5389865"		
		"5396266"   "5398044"   "5405152"		
		"5414337"   "5457479"   "5473344"		
		"5477237"   "5491477"   "5513100"		
		"5530455"   "5541379"   "5542672"		
		"5543821"   "5576727"   "5589828"		
		"5589854"   "5591082"   "5623582"		
		"5625576"   "5627531"   "5642469"		
		"5643087"   "5656901"   "5666138"		,
		"5666473"   "5691747"   "5691898"		
		"5709219"   "5712725"   "5714978"		
		"5721566"   "5724068"   "5724106"		
		"5734373"   "5736978"   "5742278"		
		"5745057"   "5749577"   "5754023"		
		"5755577"   "5760764"   "5767839"		
		"5781172"   "5787152"   "5790108"		
		"5805140"   "5808568"   "5808603"		
		"5823876"   "5825308"   "5831408"		
		"5841428"   "5889506"   "5889670"		
		"5889672"   "5912661"   "5944151"		
		"5959613"   "5990869").PN.) and actuator)		
		and controller) and computer		

8	21	((((("3919691"   "4050265"   "4131033"	USPAT	2003/09/30
		"4477043"   "4560983"   "4706294"		13:45
		"4712101"   "4782327"   "4795296"		
		"4800721"   "4823634"   "4868549"		
		"4935728"   "4943866"   "4964004"		
		"4979050"   "4983901"   "5007300"		
		"5044956"   "5095303"   "5107080"		
		"5138154"   "5139261"   "5146566"		
		"5185561"   "5186629"   "5189355"		
		"5193963"   "5204600"   "5220260"		
		"5223776"   "5235868"   "5254919"		
		"5280276"   "5296846"   "5296871"		
		"5313230"   "5317336"   "5355148"		
		"5374942"   "5381080"   "5389865"		
		"5396266"   "5398044"   "5405152"		
		"5414337"   "5457479"   "5473344"		·
		"5477237"   "5491477"   "5513100"		
		"5530455"   "5541379"   "5542672"		
		"5543821"   "5576727"   "5589828"		
		"5589854"   "5591082"   "5623582"		
	1	"5625576"   "5627531"   "5642469"		j
		"5643087"   "5656901"   "5666138"		
	1	"5666473"   "5691747"   "5691898"		
		"5709219"   "5712725"   "5714978"		
		"5721566"   "5724068"   "5724106"	i	
		"5734373"   "5736978"   "5742278"		
		"5745057"   "5749577"   "5754023"		
		"5755577"   "5760764"   "5767839"		
		"5781172"   "5787152"   "5790108"		
		"5805140"   "5808568"   "5808603"		
		"5823876"   "5825308"   "5831408"		
		"5841428"   "5889506"   "5889670"		
		"5889672"   "5912661"   "5944151"		
		"5959613"   "5990869").PN.) and actuator)		
		and controller) and computer) and (table		
		memory)		

9	18	(((((("3919691"   "4050265"   "4131033"	USPAT	2003/09/30
		"4477043"   "4560983"   "4706294"		13:45
		"4712101"   "4782327"   "4795296"		
		"4800721"   "4823634"   "4868549"		
		"4935728"   "4943866"   "4964004"		
		"4979050"   "4983901"   "5007300"		
		"5044956"   "5095303"   "5107080"		
		"5138154"   "5139261"   "5146566"		
		"5185561"   "5186629"   "5189355"		
		"5193963"   "5204600"   "5220260"		
		"5223776"   "5235868"   "5254919"		
		"5280276"   "5296846"   "5296871"		
		"5313230"   "5317336"   "5355148"		
		"5374942"   "5381080"   "5389865"		
		"5396266"   "5398044"   "5405152"		
	•	"5414337"   "5457479"   "5473344"		
		"5477237"   "5491477"   "5513100"		
		"5530455"   "5541379"   "5542672"		
		"5543821"   "5576727"   "5589828"		
		"5589854"   "5591082"   "5623582"		
		"5625576"   "5627531"   "5642469"		
		"5643087"   "5656901"   "5666138"		
		"5666473"   "5691747"   "5691898"		
		"5709219"   "5712725"   "5714978"		
		"5721566"   "5724068"   "5724106"		
		"5734373"   "5736978"   "5742278"		
		"5745057"   "5749577"   "5754023"		
		"5755577"   "5760764"   "5767839"		
		"5781172"   "5787152"   "5790108"		
		"5805140"   "5808568"   "5808603"		
		"5823876"   "5825308"   "5831408"		
		"5841428"   "5889506"   "5889670"		
		"5889672"   "5912661"   "5944151"		
		"5959613"   "5990869").PN.) and actuator)		
		and controller) and computer) and (table		
		memory)) and sensor		

10	17	((((((("3919691"   "4050265"   "4131033"	USPAT	2003/09/30
		"4477043"   "4560983"   "4706294"		13:46
		"4712101"   "4782327"   "4795296"		
		"4800721"   "4823634"   "4868549"		
		"4935728"   "4943866"   "4964004"		
		"4979050"   "4983901"   "5007300"		
		"5044956"   "5095303"   "5107080"		
		"5138154"   "5139261"   "5146566"		
		"5185561"   "5186629"   "5189355"		
		"5193963"   "5204600"   "5220260"		
		"5223776"   "5235868"   "5254919"		
		"5280276"   "5296846"   "5296871"		
		"5313230"   "5317336"   "5355148"		
		"5374942"   "5381080"   "5389865"		
		"5396266"   "5398044"   "5405152"		
		"5414337"   "5457479"   "5473344"		
		"5477237"   "5491477"   "5513100"		
		"5530455"   "5541379"   "5542672"		
		"5543821"   "5576727"   "5589828"		
		"5589854"   "5591082"   "5623582"		
		"5625576"   "5627531"   "5642469"		
		"5643087"   "5656901"   "5666138"		
		"5666473"   "5691747"   "5691898"		
		"5709219"   "5712725"   "5714978"		
		"5721566"   "5724068"   "5724106"		
		"5734373"   "5736978"   "5742278"		
		"5745057"   "5749577"   "5754023"		
		"5755577"   "5760764"   "5767839"		
		"5781172"   "5787152"   "5790108"		
		"5805140"   "5808568"   "5808603"		
		"5823876"   "5825308"   "5831408"		
		"5841428"   "5889506"   "5889670"		
		"5889672"   "5912661"   "5944151"		
		"5959613"   "5990869").PN.) and actuator)		
		and controller) and computer) and (table		
		memory)) and sensor) and feedback		

11	34	((("3919691"   "4050265"   "4131033"	USPAT	2003/09/30
		"4477043"   "4560983"   "4706294"		13:47
		"4712101"   "4782327"   "4795296"		
		"4800721"   "4823634"   "4868549"		
		"4935728"   "4943866"   "4964004"		
		"4979050"   "4983901"   "5007300"		
		"5044956"   "5095303"   "5107080"		
		"5138154"   "5139261"   "5146566"		
		"5185561"   "5186629"   "5189355"		
		"5193963"   "5204600"   "5220260"		
		"5223776"   "5235868"   "5254919"		
		"5280276"   "5296846"   "5296871"		
		"5313230"   "5317336"   "5355148"		
		"5374942"   "5381080"   "5389865"		
		"5396266"   "5398044"   "5405152"		
		"5414337"   "5457479"   "5473344"		
		"5477237"   "5491477"   "5513100"		
		"5530455"   "5541379"   "5542672"		
		"5543821"   "5576727"   "5589828"		
		"5589854"   "5591082"   "5623582"		
		"5625576"   "5627531"   "5642469"		
		"5643087"   "5656901"   "5666138"		
		"5666473"   "5691747"   "5691898"		
		"5709219"   "5712725"   "5714978"		
		"5721566"   "5724068"   "5724106"		
	,	"5734373"   "5736978"   "5742278"		
		"5745057"   "5749577"   "5754023"		
		"5755577"   "5760764"   "5767839"		
		"5781172"   "5787152"   "5790108"		
		"5805140"   "5808568"   "5808603"		
		"5823876"   "5825308"   "5831408"		
		"5841428"   "5889506"   "5889670"		
		"5889672"   "5912661"   "5944151"		
		"5959613"   "5990869").PN.) and actuator)		
		and feedback		

12	33	(((("3919691"   "4050265"   "4131033"	USPAT	2003/09/30
		"4477043"   "4560983"   "4706294"		13:47
		"4712101"   "4782327"   "4795296"		
1		"4800721"   "4823634"   "4868549"		
		"4935728"   "4943866"   "4964004"		
		"4979050"   "4983901"   "5007300"		
		"5044956"   "5095303"   "5107080"		
		"5138154"   "5139261"   "5146566"		
		"5185561"   "5186629"   "5189355"		
		"5193963"   "5204600"   "5220260"		
		"5223776"   "5235868"   "5254919"		
		"5280276"   "5296846"   "5296871"		
		"5313230"   "5317336"   "5355148"		
		"5374942"   "5381080"   "5389865"		
		"5396266"   "5398044"   "5405152"		
		"5414337"   "5457479"   "5473344"		
		"5477237"   "5491477"   "5513100"		
		"5530455"   "5541379"   "5542672"		
		"5543821"   "5576727"   "5589828"		
		"5589854"   "5591082"   "5623582"		
		"5625576"   "5627531"   "5642469"		
		"5643087"   "5656901"   "5666138"		
		"5666473"   "5691747"   "5691898"		
		"5709219"   "5712725"   "5714978"		
		"5721566"   "5724068"   "5724106"		
		"5734373"   "5736978"   "5742278"		
		"5745057"   "5749577"   "5754023"		
		"5755577"   "5760764"   "5767839"		
		"5781172"   "5787152"   "5790108"		
		"5805140"   "5808568"   "5808603"		
		"5823876"   "5825308"   "5831408"		
		"5841428"   "5889506"   "5889670"		
		"5889672"   "5912661"   "5944151"		
		"5959613"   "5990869").PN.) and actuator)		
		and feedback) and computer		
13	. 4	(("5220260" "5414337" "5559412"	USPAT	2003/09/30
		"5889670").pn.) and computer		14:04

14	88	(("3919691"   "4050265"   "4131033"	USPAT	2003/09/30
		"4477043"   "4560983"   "4706294"		14:04
		"4712101"   "4782327"   "4795296"		
		"4800721"   "4823634"   "4868549"		
		"4935728"   "4943866"   "4964004"		
		"4979050"   "4983901"   "5007300"		
		"5044956"   "5095303"   "5107080"		
		"5138154"   "5139261"   "5146566"		
		"5185561"   "5186629"   "5189355"		
		"5193963"   "5204600"   "5220260"	ļ	
		"5223776"   "5235868"   "5254919"		
		"5280276"   "5296846"   "5296871"		
		"5313230"   "5317336"   "5355148"		
		"5374942"   "5381080"   "5389865"		
		"5396266"   "5398044"   "5405152"		
		"5414337"   "5457479"   "5473344"		
		"5477237"   "5491477"   "5513100"		
		"5530455"   "5541379"   "5542672"		
		"5543821"   "5576727"   "5589828"		
		"5589854"   "5591082"   "5623582"		
		"5625576"   "5627531"   "5642469"		
		"5643087"   "5656901"   "5666138"		
		"5666473"   "5691747"   "5691898"		
		"5709219"   "5712725"   "5714978"		
		"5721566"   "5724068"   "5724106"		
		"5734373"   "5736978"   "5742278"		
		"5745057"   "5749577"   "5754023"		
		"5755577"   "5760764"   "5767839"		
		"5781172"   "5787152"   "5790108"		
		"5805140"   "5808568"   "5808603"		
		"5823876"   "5825308"   "5831408"		
		"5841428"   "5889506"   "5889670"		
		"5889672"   "5912661"   "5944151"		
		"5959613"   "5990869").PN.) and computer		
<b>-</b> ·	2	5220260.pn.	USPAT;	2003/09/30
		-	US-PGPUB;	11:09
			DERWENT	

18. A movable member; an actuator coupled to the moveable member, the motor being configured to output a haptic feedback, the haptic feedback including a modulating force; a data storage component configured to store torque data associated with the haptic feedback, the torque data being provided by a host computer; a sensor coupled to the moveable member, the sensor being configured to send position information associated with a position of the moveable member and a local controller coupled to the data storage component and the actuator, the controller being configured to be in communication with the house computer, the controller being configured to send a control signal to the actuator, the control signal being based on data values associated with a host software application of the host computer, the haptic feedback being associated with the position information, and the host software application.

- 19. The device of claim 19, the actuator being a first actuator, the device further comprising a second actuator, the controller being configured to output the control signal to the first and second actuators, the first and second actuators configured to produce the haptic feedback.
- 20. The device of claim 19, wherein the data storage component is configured to receive and store a plurality of torque values from the hose computer.
- 21. The device of claim 21, wherein each of the torque values is associated with a different tactile sensation.